

Ali Zia

(437) 241 4722 | ziam8@mcmaster.ca | [linkedin.com/in/m-alizia](https://www.linkedin.com/in/m-alizia) | github.com/AlizZia03 | alizia.netlify.app

EXPERIENCE

Director of Projects | McMaster Artificial Intelligence Society, Hamilton ON **September 2023 – Present**

- Managing **4** projects within the society by **providing technical expertise** and guidance to project development
- Displayed adeptness in **project management** by tracking project progress and achieving goals within timelines
- Demonstrated **leadership** qualities by leading recruitment and training project members, fostering team growth

PROJECTS

Premier League (Soccer) Win Predictor | Python, Pandas, Scikit-learn, Beautiful Soup [GitHub Repository](#)

- Used **Python** and **Pandas** to process and feature engineer Premier League games data to predict future winners
- Scraped historical performance, home and away records and shooting statistics to increase prediction accuracy
- Ensured model reliability by developing a pipeline to clean, transform and split training and test data sets
- Employed a random forest algorithm with **Scikit-learn** to predict the winner of any game, achieving **70%** accuracy

Island Generator (University Project) | Java, JUnit, Maven, Agile Development [GitHub Repository](#)

- Worked in a **team of 3** to develop a **Java** application that generates meshes based on user-defined parameters
- Expanded the functionality of the application to enrich the generated meshes into island landscapes with cities
- Individually integrated a custom graph library to construct a star network to connect cities with roads
- Implemented comprehensive testing coverage for **60%** of the codebase using **JUnit**

Easy-Chat | React, Express, Node, MongoDB, Chakra UI [GitHub Repository](#)

- Deployed a full stack web application that allows users to chat online across various devices
- Built a **React** front-end with real-time messaging and notification features similar to popular chat platforms
- Implemented a robust user authentication system using **JSON Web Tokens** and **bcrypt** to ensure safety of user data
- Created APIs with **Express** and **Node** to allow users to create and edit their profiles, find other users and create chats

Job Application Organizer | Java, MySQL [GitHub Repository](#)

- Developed a desktop program with **Java** to map job progress by tracking and visualizing job application data
- Designed a user-friendly **Java Swing GUI** to allow users to intuitively create, update, search and delete records
- Created and connected to a **MySQL** database to store user job application data
- Consolidated data from over **100 records** algorithmically to generate pie chart and bar chart visualizations

EDUCATION

Bachelor of Software Engineering (CO-OP) | McMaster University, Hamilton ON **September 2021 – 2025**

- Cumulative GPA: **3.9/4.0**

Relevant Courses:

- Engineering Mathematics II/III (**MATLAB**)
- Object-Oriented Programming (**Java**)
- Development Basics (**C, Bash**)
- Intro to Software Development (**Java, Git, Maven**)
- Probability & Statistics for Engineering (**R**)
- Concurrent System Design (**Java, Python, C**)

SKILLS

Languages & Frameworks: Python, Java, JavaScript, C, MATLAB, R, React, Node, Express, Redux, Pandas, Scikit-learn

Tools: Git/GitHub, Bash, Linux, SQL, MongoDB, Firebase, JUnit, VS code, IntelliJ, PyCharm, Jupyter Notebook, Excel